



# Accelerate Your Time-to-Mission™

## DAQ-35CP0G - Data Acquisition System



Made in the USA  
Certified Small Business

Off-the-shelf, 3U, 5-slot chassis designed for remote rugged environment operation

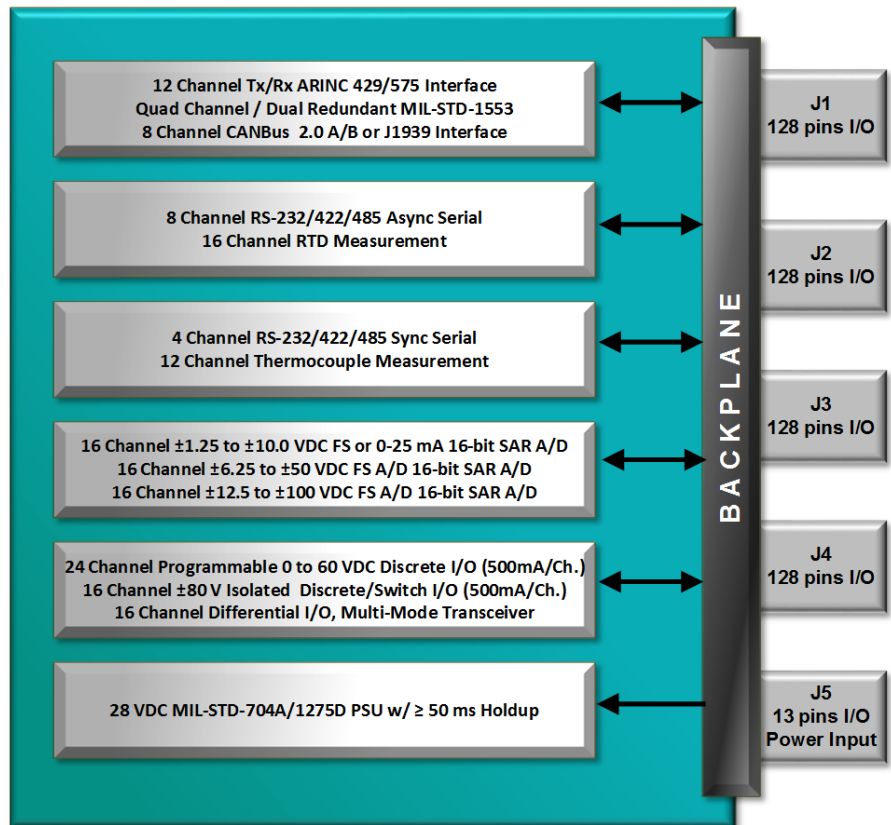
NAI designs **Data Acquisition Systems (DAQ)** around core COTS technology building blocks, offering our customers readily available, interoperable, field-proven systems (or subsystems) designed to withstand the rigors of harsh, SWaP-constrained environments. The **DAQ-35CP0G** is a pre-configured rugged system ideally suited to support a multitude of military/aerospace data acquisition applications that require “SBC-less” remote Gig-E command and control of high-density, multi-channel programmable ARINC 429/575; Dual-Redundant, Quad Channel MIL-STD-1553B; CANBus (CAN 2.0 A&B or J1939); A/D Conversion; RTD Measurement; RS-232/422/485 Serial Communications; Thermocouple Measurement; Discrete I/O; Differential Transceiver and Dual-Port Gig-E Ethernet.

The DAQ-35CP0G delivers an off-the-shelf, preconfigured solution that accelerates deployment of SWaP-optimized systems in rugged air, land and sea applications. Pairing the DAQ-35CP0G hardware with your application will accelerate your time to mission!



### Features

- Meets or exceeds MIL-STD-461F and MIL-STD-810G requirements
- Built-in-Test (BIT)
- < 15 lbs. typical
- COTS/NDI
- COSA® architecture
- Conduction cooled SWaP
- 28 VDC power @ 75 W, typical



## Architecture

With our exclusive, modular, interoperable **Custom on Standard Architecture™ (COSA®)**, NAI's data acquisition systems seamlessly integrate with our **intelligent multifunction I/O boards**, containing highest packaging density and greatest flexibility of any multifunction I/O modules in the industry, and can be deployed rapidly with no NRE.

## Applications

With decades of experience in embedded rugged electronics, NAI's flexible, modular **Data Acquisition (DAQ)** systems are a perfect fit for a number of military/aerospace applications where compact, low-power systems are required, including:

- Flight Test Instrumentation
- Engine Power Assurance
- Vehicle Usage Monitoring
- Crew Controls
- Vehicle Health Monitoring

## Continuous Background Built-In-Test (BIT)

BIT monitors the status of all I/O during normal operations and is totally transparent to the user. SBC resources are not consumed while executing BIT routines. This simplifies maintenance, assures operational readiness, and reduces life-cycle costs and keeps your system mission-ready.

## Single-Source Efficiency

Eliminate man-months of integration with a configured, field-proven system from NAI. Requirements review through deployment is a seamless experience as all design, state-of-the-art manufacturing, assembly and test are performed - by one trusted source. All facilities are located in the U.S. and optimized for high-mix/low volume production runs and extended lifecycle support.

## Software

All I/O and communications library Software Support Kits (SSKs) are supplied free of charge.

## Target Environment

All products are designed to operate under extreme temperature, shock, vibration and EMI environments. NAI's systems are designed to meet or exceed MIL-STD-461F and MIL-STD-810G requirements.

*MIL-STD-461F requires proper shielded cables and systems practices.*

*Specifications are subject to change without notice.*

*All product and company names are trademarks or registered trademarks of their respective holders.*